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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F24H1/00 F24H1/20

According to International Patent Classification (IPC) or in both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F24H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 559 201 C (ERWIN SLAWIK) 17 September 1932 (1932-09-17) the whole document -----	1-4,7, 10,12
X	US 5 850 503 A (ONKEN DONALD R) 15 December 1998 (1998-12-15) figures -----	1-4,7, 10,12
X	US 4 803 343 A (MASHINO NOBUYOSHI ET AL) 7 February 1989 (1989-02-07) figures -----	1,3,4,8, 13
X	JP 61 162925 A (KASHIWAJIMA MITSUTOSHI) 23 July 1986 (1986-07-23) figures -----	1

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

31 March 2004

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07/04/2004

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 559201	C	17-09-1932	NONE			
US 5850503	A	15-12-1998	NONE			
US 4803343	A	07-02-1989	JP	1779313 C	13-08-1993	
			JP	4059231 B	21-09-1992	
			JP	62220478 A	28-09-1987	
			JP	62218763 A	26-09-1987	
			JP	1807924 C	10-12-1993	
			JP	5012230 B	17-02-1993	
			JP	62158689 A	14-07-1987	
			CN	86108941 A ,B	02-09-1987	
			DE	3644364 A1	16-07-1987	
			FR	2592470 A1	03-07-1987	
			GB	2187274 A ,B	03-09-1987	
			KR	9407192 B1	08-08-1994	
JP 61162925	A	23-07-1986	JP	1763360 C	28-05-1993	
			JP	4055045 B	02-09-1992	